WHAT IS CLAIMED IS:

1. A downhole connector assembly for sealingly attaching a first and a second segment of a control line having a communication line therein, comprising:
at least one weld coupling; and
at least one thermal insulator, said thermal insulator located between the communication line and the weld coupling.

2. The downhole connector assembly of claim 1, further comprising a protective housing containing the at least one weld coupling therein.

3. The downhole connector assembly of claim 1, wherein the protective housing is filled with an epoxy.

4. The downhole connector assembly of claim 1, wherein the protective housing is filled with a gel.

5. The downhole connector assembly of claim 2, wherein the protective housing futher comprises a port adapted for pressure testing the downhole connector assembly.

6. A protective splice assembly, comprising:
a first cable having an outer housing and a communication line therein;
a second cable having an outer housing and a communication line therein;
a spliced connection between the communication lines of the first and second cables;
at least one weld coupling located between the outer housings and the communication lines welded to the first and second cables; and
at least one thermal insulator of the first and second cables.

7. The protective splice assembly of claim 6, adapted for downhole application.

8. The protective splice assembly of claim 6, wherein the outer housing is comprised of a metallic material.

9. The protective splice assembly of claim 6, wherein the outer housing is comprised of a steel alloy.

10. The protective splice assembly of claim 6, wherein the communication line transfers data.

11. The protective splice assembly of claim 6, wherein the communication line transfers power.

12. The protective splice assembly of claim 6, wherein the communication line is an electrical line.

13. The protective splice assembly of claim 6, wherein the communication line is a fiber optic line.

14. The protective splice assembly of claim 6, wherein the at least one weld coupling is welded with an orbital welder.

15. The protective splice assembly of claim 6, further comprising a secondary housing located within the outer housing.

16. The protective splice assembly of claim 15, wherein the secondary housing comprises a polymeric material.

17. The protective splice assembly of claim 15, wherein the communication lines extend therethrough the secondary housing.

18. The protective splice assembly of claim 15, wherein the at least one thermal insulator is located between the secondary housing and the outer housing.

19. The protective splice assembly of claim 6, further comprising a pressure housing secured to the first and second cables such that the at least one weld coupling is isolated from the surrounding environment.

20. The protective splice assembly of claim 19, wherein the pressure housing is secured by welding.

21. The protective splice assembly of claim 19, wherein the pressure housing is secured by ferrules.

22. The protective splice assembly of claim 19, wherein the pressure housing is secured by elastomeric seals.

23. The protective splice assembly of claim 19, wherein the pressure housing further comprises a port adapted for pressure testing.

24. The protective splice assembly of claim 19, wherein the pressure housing is filled with a gel.

25. The protective splice assembly of claim 19, wherein the pressure housing is filled with an epoxy.

26. A downhole connector assembly for sealingly attaching a first and a second segment of a control line having a communication line therein, comprising:
at least one weld coupling; and
means for thermally protecting the communication line, said means located between the communication line and the weld coupling.

27. A method for providing a downhole control line, comprising:
providing a first and a second segment of a control line having a communication line therein;
providing a weld coupling;
inserting the first and second segments of the control line into the weld coupling and welding the segments in place; and
providing at least one thermal insulator between the weld coupling and the communication line of the first and second segments.